

## **METHOD AND APPARATUS FOR THE CONTROL AND MONITORING OF SHAPE CHANGE IN TISSUE**

### **Abstract of the Disclosure**

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A method of electroforming tissue comprises creating stress in the tissue; and causing a direct current to flow in the tissue to change the stress, strain, or intrinsic mechanical properties including shape of the tissue. Force is mechanically applied to the tissue to create external stresses or material parameters of the tissue are used to  
10 create internal stresses in the tissue by causing a current to flow in the tissue. The method further comprises the step of monitoring the stresses in the tissue and controlling the current flowing in the tissue according to the stresses therein by monitoring impedance, the optical properties, the pH, acoustic properties of the tissue, the gas formation in the tissue, the color of the tissue as caused by a chemical dye  
15 disposed therein or as caused by electroplating a material thereon.